

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1327057

Luminaire Tested: LDSQA3D09R60W2N902750DE010 3LSQCA30R 1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R60W2N902750DE010 3LSQCA30R 1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

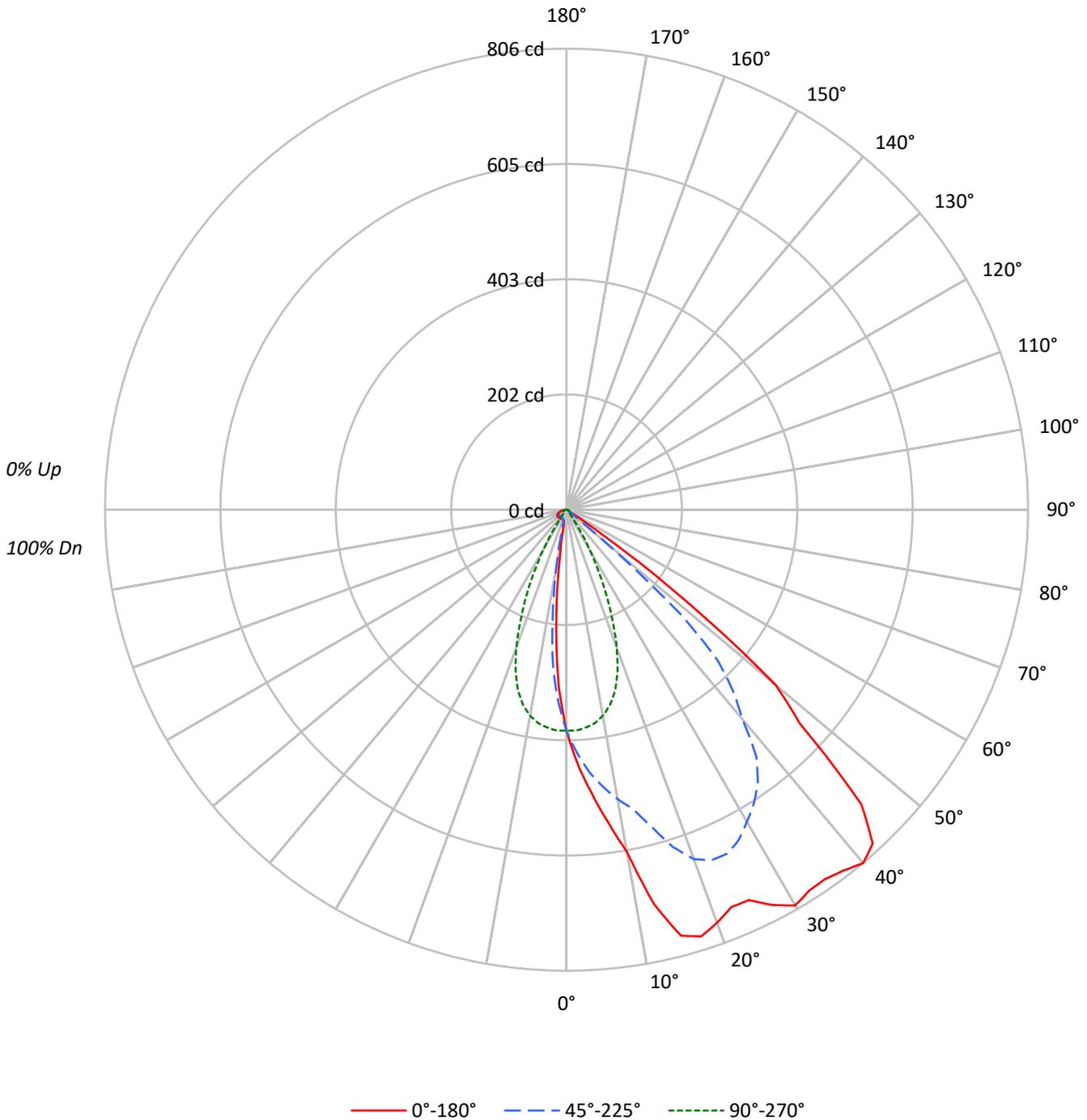
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 627.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90	90	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	81	81
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	72	72	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	66478	66478	66478	66478	66478
5°	85870	79715	66110	47075	35925
10°	106117	89853	63971	17803	5281
15°	137414	102272	58375	3905	3477
20°	140829	119129	46974	3262	3372
25°	143090	126102	31506	3154	3382
30°	158814	125265	16247	3182	3540
35°	165652	122468	4478	3364	3869
40°	181273	107397	2136	3597	4249
45°	177336	91262	2168	3897	4749
50°	127830	22533	2385	4287	5225
55°	24531	1411	2492	4624	5855
60°	1240	1412	2446	4891	6338
65°	1223	1467	2404	5053	6765
70°	1209	1511	2367	5086	6848
75°	1198	1597	2396	5124	7120
80°	595	1785	2380	5256	7042
85°	1186	1186	2371	4742	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 177336 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	5.4
10°-20°	92.7	14.8
20°-30°	142.6	22.7
30°-40°	167.4	26.7
40°-50°	134.2	21.4
50°-60°	41.7	6.6
60°-70°	7.9	1.3
70°-80°	5.3	0.8
80°-90°	1.8	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	268.9	42.9
0°-40°	436.2	69.6
0°-60°	612.1	97.6
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	386	386	386	386	386	
5°	497	461	382	272	208	51
15°	771	574	327	22	20	211
25°	753	664	166	17	18	355
35°	788	582	21	16	18	499
45°	728	375	9	16	20	521
55°	82	5	8	15	20	129
65°	3	4	6	12	17	3
75°	2	2	4	8	11	2
85°	1	1	1	2	4	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0
2.5°	445.2	440.4	440.4	438.6	436.9	437.5	432.7	434.5	429.8	426.2	423.3
5°	496.7	490.7	490.1	487.2	484.2	481.9	475.9	472.4	465.3	461.1	452.3
7.5°	549.9	545.2	542.2	538.7	533.4	527.4	517.4	510.9	499.6	488.4	477.1
10°	606.8	602.6	596.1	592.0	577.2	567.7	554.1	545.2	528.6	513.8	496.7
12.5°	706.2	703.8	691.4	683.1	661.8	642.9	613.3	589.6	560.0	535.7	512.6
15°	770.7	767.8	761.3	753.6	740.0	718.6	692.0	658.9	617.4	573.6	534.5
17.5°	782.0	782.6	778.4	776.7	767.8	754.2	732.9	708.0	666.6	618.0	564.7
20°	768.4	773.1	771.9	775.5	777.3	771.9	757.7	733.4	697.3	650.0	590.2
22.5°	751.8	755.9	754.8	761.3	771.3	776.7	771.9	752.4	715.7	663.0	604.4
25°	753.0	755.9	747.1	751.2	764.2	777.3	777.8	760.7	721.0	663.6	603.2
27.5°	779.0	770.1	750.0	748.2	764.2	780.8	782.0	760.7	713.3	651.2	591.4
30°	798.6	792.1	769.6	766.6	782.0	793.2	787.3	754.2	695.0	629.9	574.2
32.5°	789.1	790.3	780.8	790.3	810.4	815.1	790.3	738.8	669.5	609.1	554.1
35°	787.9	792.6	798.0	812.8	826.4	815.1	775.5	709.8	642.3	582.5	522.7
37.5°	795.0	802.7	810.4	823.4	823.4	794.4	736.4	673.1	609.7	544.6	457.6
40°	806.3	811.0	813.4	812.2	796.2	753.6	692.0	628.7	568.3	477.7	414.4
42.5°	791.5	790.9	788.5	778.4	748.8	693.2	635.8	584.3	489.0	431.0	358.7
45°	728.1	728.1	721.6	705.6	678.4	632.2	581.3	506.1	445.8	374.7	266.4
47.5°	551.1	547.0	554.1	563.6	563.6	559.4	513.2	448.1	386.6	270.5	85.2
50°	477.1	470.6	461.7	463.5	462.3	467.1	437.5	388.3	285.9	84.1	5.9
52.5°	269.9	281.8	310.8	351.6	370.0	376.5	358.1	295.4	96.5	5.3	4.7
55°	81.7	84.1	95.3	117.2	159.2	203.6	206.6	95.9	6.5	4.7	4.7
57.5°	3.6	3.6	4.7	7.1	16.6	24.9	26.6	5.9	4.1	4.7	4.7
60°	3.6	3.6	3.6	3.6	3.6	3.6	4.1	4.1	4.1	4.1	4.7
62.5°	3.0	3.0	3.6	3.6	3.6	3.6	3.6	3.6	4.1	4.1	4.1
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.6	3.6	3.6	3.6	4.1
67.5°	2.4	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.6	3.6	3.6
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0	3.0	3.0
72.5°	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	3.0
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	386.0	386.0	386.0	386.0	386.0	386.0	386.0	386.0
2.5°	419.1	414.4	409.0	386.6	364.7	335.1	314.9	309.0
5°	444.6	436.9	425.0	382.4	330.9	272.3	224.9	207.8
7.5°	465.9	454.0	437.5	376.5	290.7	184.7	119.0	100.6
10°	481.3	466.5	445.2	365.8	237.4	101.8	40.3	30.2
12.5°	494.3	474.8	449.3	349.9	172.9	41.4	20.7	20.7
15°	503.2	479.5	451.1	327.4	111.9	21.9	19.5	19.5
17.5°	515.6	484.8	451.1	296.0	61.0	18.9	18.9	18.9
20°	535.7	490.1	444.6	256.3	33.7	17.8	18.4	18.4
22.5°	546.4	497.8	436.3	210.1	21.3	17.2	17.8	17.8
25°	548.8	496.7	418.5	165.8	17.2	16.6	17.2	17.8
27.5°	540.5	488.4	394.8	120.8	15.4	16.0	17.2	17.8
30°	525.7	468.2	357.0	81.7	14.2	16.0	17.2	17.8
32.5°	497.8	419.7	312.6	49.1	13.6	16.0	17.2	18.4
35°	435.7	368.8	261.6	21.3	13.0	16.0	17.8	18.4
37.5°	390.7	317.9	202.5	10.7	13.0	16.0	17.8	18.9
40°	341.0	255.7	93.5	9.5	13.0	16.0	17.8	18.9
42.5°	259.9	118.4	11.2	9.5	12.4	16.0	18.4	18.9
45°	94.7	12.4	5.9	8.9	12.4	16.0	18.4	19.5
47.5°	7.1	4.7	5.3	8.9	12.4	16.0	18.4	19.5
50°	4.7	4.7	5.3	8.9	12.4	16.0	18.4	19.5
52.5°	4.7	5.3	5.3	8.3	11.8	16.0	18.4	19.5
55°	4.7	5.3	5.3	8.3	11.8	15.4	18.4	19.5
57.5°	4.7	4.7	5.3	7.7	11.2	14.8	18.4	18.9
60°	4.7	4.7	5.3	7.1	10.7	14.2	17.2	18.4
62.5°	4.7	4.7	4.7	6.5	10.1	13.6	16.6	17.8
65°	4.1	4.1	4.7	5.9	8.9	12.4	15.4	16.6
67.5°	3.6	4.1	4.1	5.3	8.3	11.2	14.2	15.4
70°	3.6	3.6	3.6	4.7	7.1	10.1	13.0	13.6
72.5°	3.0	3.0	3.6	4.1	6.5	8.9	11.8	12.4
75°	2.4	3.0	3.0	3.6	5.3	7.7	10.1	10.7
77.5°	2.4	2.4	2.4	3.0	4.7	6.5	8.3	8.9
80°	1.8	1.8	1.8	2.4	3.6	5.3	6.5	7.1
82.5°	1.2	1.8	1.8	1.8	3.0	3.6	4.7	5.3
85°	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.6
87.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)